

# (SCR) STPOWER

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# Thyristors (SCR) and AC Switches

## Overview

Designed for high immunity against glitches on mains and high load supplies, the Thyristors, also known as silicon-controlled rectifiers (SCR), triacs and logic-level gate ACS circuits are switches working on 120, 240 and 480 V AC power lines for appliances, tools, converters and drive systems. Thyristors (SCR) and AC Switches belong to our **STPOWER** family.

The most energy efficient, simplest gate drive, Thyristors, are also the toughest 200 to 1400 V bidirectional switch for controlling alternating current mains power.

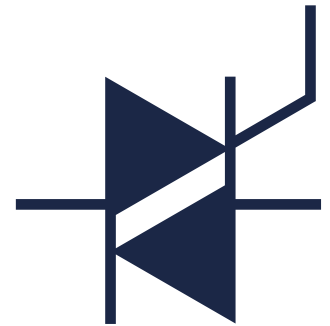
With a current range from 0.2 to 80 A, Thyristors are used in home and office appliances, as well as industrial automation. More concretely, AC switch circuits are included in compressor drives, water heater, power tools, static relays, roller shutters, motorbike regulators and more recently, circuit breakers and electrical vehicle chargers.

Smart-building connected objects powered by AC mains is the latest innovation where Thyristors are contributing to climate and energy controls.

To meet the wide variety of assembly automation requirements, ST's portfolio offers a full range of surface-mount SMD packages from the tiniest 0.8 A SMB Flat ACS to the power-carrier 80 A D3PAK SCRs. Our through-hole packages include the thermally excellent 2500 V ceramic-insulated TO-220 and the new full resin-molded TO-220 package.

Explore our large choice of packages for our thyristors (SCR), Triacs and ACS switches.

Quickly find the thyristor or AC switch that best fits your design by simply entering the main I/O and gate parameters in our AC Switch Simulator.



### Triacs



Today's triacs are perfected with low gate current drive, high immunity and commutation at temperature (see our T series and H series).

### AC Switches



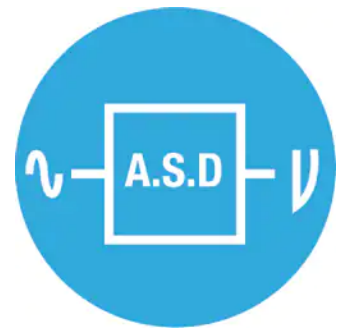
Our ACS™ AC switches ensure the interface between a gate and an MCU with an integrated over-voltage protection (OVP) function.

### SCRs



Silicon-controlled rectifiers (SCR) are the most immune switch to voltage spikes and their load commutation capability is very high.

### ASD



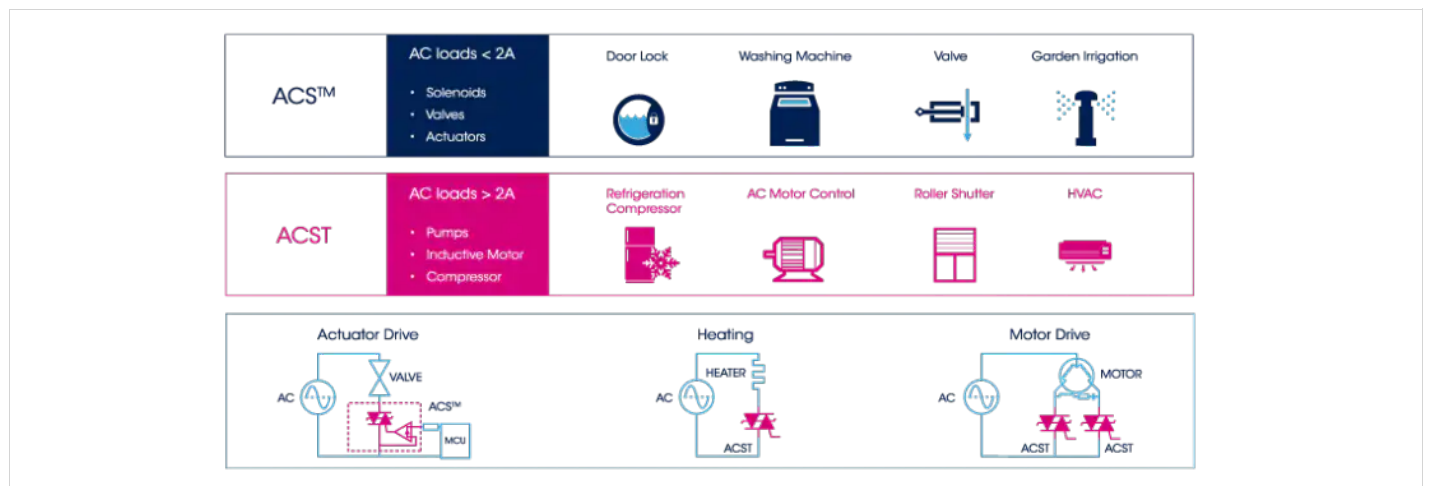
ASDs (Application-Specific Discretes) are a collection of gas and fuel ignitors integrating SCR building blocks.

# AC Switches

## Overview

- Our ACST series are over-voltage protected triacs that protect themselves by folding back and leading current into the load when subjected to an overvoltage. This feature and the well-dimensioned 10 to 35 mA gate versions as well as its 800 V, 4 to 16 A range make this series ideal for appliances or equipment plugged in 24/7.
- Featuring 800 V and 5 mA gate rated devices, our ACS™ AC switches, also with overvoltage protection, are smaller devices with highly inductive load switching capabilities for home and irrigation appliances including solenoid actuators and pumps.

AC Switches belong to our **STPOWER** family.



**Thyristors (SCR) and AC Switches / AC Switches/Logic-level gate ACS series**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Quadrants	Triggering gate current max (mA) (II, III)	Clamping Voltage (V) (@ 1mA) min	Rate of decrease of commutating on-state current (A/ms) (@ T <sub>J(max)</sub> ) min	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>J(max)</sub> ) min
ACS102-6T	Overvoltage protected AC switch	SO-8,TO-92	0.2	600	7.3	II, III	5, 5	650	0.15	300
ACS108-6SA	Overvoltage Protected AC switch	TO-92	0.8	600	13.7	II, III	10, 10	650	2	2000
ACS108-6SN	Overvoltage Protected AC switch	SOT-223	0.8	600	13.7	II, III	10	650	2	2000
ACS108-8SA	Overvoltage Protected AC switch	TO-92	0.8	800	13.7	II, III	10, 10	850	2	2000
ACS108-8SN	Overvoltage Protected AC switch	SOT-223	0.8	800	13.7	II, III	10, 10	850	2	2000
ACS108-8SP	Overvoltage protected AC Switch 0.8 A - 800 V in SOT223-2L high creepage package	SOT223-2	0.8	800	13	II, III	-	-	-	-
ACS108-8TN	Overvoltage Protected AC switch (ACS™)	SOT-223	0.8	800	13	II, III	5, 5	850	0.8	300
ACS110	Overvoltage protected AC switch	SOT-223	1	700	8	II, III	10, 10	750	0.5	500
ACS120	Overvoltage protected AC switch	DPAK,TO-220AB,TO-220FPAB	2	700	20	II, III	10, 10	1100	1	500

Thyristors (SCR) and AC Switches / AC Switches/Overvoltage protected ACST series

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Quadrants	Triggering gate current max (mA) (I, II, III)	Clamping Voltage (V) (@ 100μA) min	Rate of decrease of commutating on-state current (A/ms) (@ T <sub>j(max)</sub> ) min	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>j(max)</sub> ) min
ACST10	Overvoltage protected AC switch	TO-220AB,TO-220FPAB	10	700	100	I, II, III	10, 10, 10,35, 35, 35	850	12,4,4	200,2000
ACST12	Overvoltage protected AC switch	D2PAK,TO-220AB	12	700	120	I, II, III	10, 10, 10,35, 35, 35	850	14,5,3	200,2000
ACST1235-8FP	12 A 800 V Over-voltage protected AC switch	TO-220FPAB	12	800	100	I, II, III	35, 35, 35	850	6	2000
ACST1635-8FP	Overvoltage protected AC switch	TO-220FPAB	16	800	140	I, II, III	35, 35, 35	850	4	300
ACST2	Overvoltage protected AC switch	DPAK,TO-220FPAB	2	800	8	I, II, III	10, 10, 10	850	0.5	500
ACST310-8B	Overvoltage protected AC switch	DPAK	3	800	20	I, II, III	10, 10, 10	850	5	1000
ACST4	4 A - 800 V Overvoltage protected AC switch	DPAK,TO-220FPAB	4	800	32	I, II, III	10, 10, 10,35, 35, 35	850	2,5	1000,500
ACST6	Overvoltage protected AC switch	D2PAK,TO-220AB,TO-220FPAB	6	800	45	I, II, III	10, 10, 10	850	3.5	500
ACST8	Overvoltage protected AC switch	D2PAK,TO-220AB,TO-220FPAB	8	800	80	I, II, III	30, 30, 30	850	8	2000
ACST1035-8FP	10 A 800 V Over-voltage protected AC switch	TO-220FPAB	10	800	90	I, II, III	35-35-35	850	5	2000
ACST310-8FP	Overvoltage protected AC switch	TO-220FPAB	3	800	20	I, II, III	10, 10, 10	850	5	1000

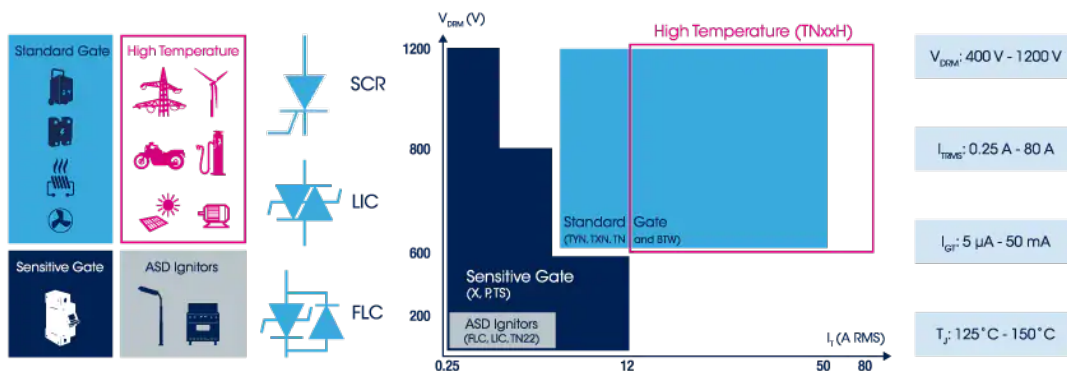
# Thyristors (SCR)

## Overview

Featuring immunity to surges and transients in static states and commutations, our silicon-controlled rectifiers (SCR), also known as thyristors, are ideal for single- and three-phase power line networks, even in harsh environments up to 150°C. Thyristors (SCR) belong to our **STPOWER** family.

In addition to AC, DC and capacitive ignitor circuits, these unidirectional switches are found in high-voltage industrial circuits as well as automotive equipment and all other segments where electromechanical relays are not operative or unreliable.

Whenever a bidirectional switch function is needed at 20 A and more, a back-to-back SCR configuration will work with no compromise on the function/immunity.



An even simpler bidirectional AC power line switch is also available.

**Thyristors (SCR) and AC Switches / Thyristors (SCR)/High-temperature Thyristors (SCR)**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Junction Temperature (°C) max	Triggering gate current max (mA)	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>J(max)</sub> ) min
STTD6050H-12MZY	60 A 1200 V half-controlled bridge rectifier in ACEPACK SMIT module	ACEPACK SMIT	60	1200	500	150	50	1000
STTN6050H-12M1Y	60 A 1200 V thyristor controlled half bridge in ACEPACK SMIT module	ACEPACK SMIT	60	1200	600	150	50	1000
TM8050H-8D3	80 A 800 V High Temperature Thyristor (SCR) in D3PAK package	D3PAK-2L	80	800	670	150	50	1000
TM8050H-8W	80 A High Temperature Thyristor (SCR)	TO-247	80	800	670	150	50	1000
TN1205H	High temperature 12 A SCRs	D2PAK,TO-220AB	12	600	120	150	5	100
TN1605H-6G	High Temperature 16A SCRs	D2PAK	16	600	140	150	6	200
TN1605H-6T	High temperature 16 A SCRs	TO-220AB	16	600	140	150	6	200
TN1605H-8B	16 A High Temperature 800 V SCR in DPAK package	DPAK	16	-	140	150	-	-
TN1605H-8G	16 A 800 V High Temperature SCR in D2PAK package	D2PAK	16	800	160	150	5	-
TN1605H-8I	16 A 800 V High Temperature SCR in TO-220AB-I	TO-220AB Ins	16	-	160	150	-	-
TN1605H-8T	16 A 800 V High Temperature SCR in TO-220AB	TO-220AB	16	800	160	150	-	-
TN1610H-6I	16 A 600 V High Temperature SCR in insulated TO-220I	TO-220AB Ins	16	600	140	-	15	-
TN1610H-6T	High temperature 16 A 600 V TO220 Thyristor SCRs	TO-220AB	16	600	140	150	10	1000
TN2010H-6G	High Temperature 20A SCRs	D2PAK	20	600	180	150	10	400
TN2010H-6I	20 A 600 V Low IGT High Temperature SCR in TO220I	TO-220AB Ins	20	600	180	150	10	-
TN2010H-6T	High Temperature 20A SCRs	TO-220AB	20	600	180	150	10	400
TN2015H-6I	20 A 600 V High Temperature SCR in TO-220I	TO-220AB Ins	20	-	180	-	15	-
TN2015H-6T	High temperature 20A SCRs	TO-220AB	20	600	180	150	15	750
TN3015H-6G	30 A 600 V D2PAK High Temperature Thyristor SCR	D2PAK	30	600	-	150	15	1000
TN3015H-6I	High Temperature 30A SCRs in TO-220AB Insulated	TO-220AB Ins	30	600	270	150	15	1000
TN3015H-6T	High Temperature 30A SCRs in TO-220AB	TO-220AB	30	600	270	150	15	1000
TN3050H-12GY-TR	1200 V, 30 A Automotive Grade AEC-Q101 SCR Thyristor	D2PAK	30	1200	300	150	50	1000
TN3050H-12WY	1200 V, 30 A Automotive Grade AEC-Q101 SCR Thyristor	TO-247	30	1200	300	150	50	1000

TN3050HP-12L2Y	30 A 1200 V automotive grade SCR Thyristor in HU3PAK package	HU3PAK	30	1200	300	150	50	1000
TN4015H-6G	High Temperature 40A SCRs	D2PAK	40	600	360	150	15	500
TN4015H-6I	High Temperature 40A SCRs	TO-220AB Ins	40	600	360	150	15	500
TN4015H-6T	High Temperature 40A SCRs	TO-220AB	40	600	360	150	15	500
TN4050HA-12GY	1200 V , 40 A Automotive SCR Thyristor in D2PAK package	D2PAK	40	1200	400	150	50	1000
TN4050HP-12L2Y	1200 V, 40 A Automotive Grade AEC-Q101 SCR Thyristor in HU3PAK	HU3PAK	40	1200	1400	150	50	1000
TN5015H-6G	High temperature 50A SCRs	D2PAK	50	600	450	150	15	500
TN5015H-6I	High temperature 50A SCRs	TO-220AB Ins	50	600	450	150	15	500
TN5015H-6T	High temperature 50A SCRs	TO-220AB	50	600	450	150	15	500
TN5050H-12WY	1200 V, 50 A Automotive Grade AEC-Q101 SCR Thyristor	TO-247	50	1200	580	150	50	1000
TN6050HP-12WY	1200 V, 60 A Automotive Grade AEC-Q101 SCR Thyristor	TO-247	60	1200	600	150	50	1000
TN8050H-12PI	80 A 1200 V High Temperature SCR Thyristor in TOP-3I	TOP3 Ins	80	1200	-	150	-	1000
TN1605H-6FP	High temperature 16 A SCRs	TO-220FPAB	16	600	140	150	6	200
TN1610H-6FP	High temperature 16 A 600 V TO220-FP Thyristor SCRs	TO-220FPAB	16	600	140	150	10	1000
TN2010H-6FP	High Temperature 20A SCRs	TO-220FPAB	20	600	180	150	10	400
TN2015H-6FP	High temperature 20 A SCRs	TO-220FPAB	20	600	180	150	15	750



Thyristors (SCR) and AC Switches / Thyristors (SCR)/Logic-level gate Thyristors (SCR)

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Junction Temperature (°C) max	Triggering gate current max (mA)	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>j(max)</sub> ) min
P0102AL	High Immunity 0.25 A 100 V SCR Thyristor	SOT23	0.25	100	6	125	0.2	200
P0102BL	High immunity 0.25 A 200 V SCR Thyristor	SOT23	0.25	200	6	125	0.2	200
P0102DA	Sensitive gate 0.8 A 400 V SCR Thyristor	TO-92	0.8	400	7	125	0.2	75
P0102DN	Sensitive gate 0.8 A 400 V SCR Thyristor	SOT-223	0.8	400	7	125	0.2	75
P0102MN	Sensitive gate 0.8 A 600 V SCR Thyristor	SOT-223	0.8	600	7	125	0.2	75
P0109AL	Sensitive High Immunity 0.25 A SCR	SOT23	0.25	100	6	125	0.001	100
P0109DA	Sensitive 0.8 A SCR Thyristor	TO-92	0.8	400	8	125	0.001	75
P0111DA	Sensitive 400V 0.8 A SCR Thyristor in TO-92	TO-92	0.8	400	7,8	125	0.025	80
P0111MA	0.8 A - 600 V logic level SCR Thyristor in TO-92	TO-92	0.8	600	7	125	0.025	80
P0111MN	0.8 A 600 V logic level SCR Thyristor in SOT-223	SOT-223	0.8	600	7	125	0.025	80
P0115DA	Sensitive 0.8 A 400 V SCR Thyristor in TO-92	TO-92	0.8	400	8	125	0.050	75
P0118MA	Sensitive 0.8 A 600 V SCR Thyristor in TO-92	TO-92	0.8	600	7	125	0.005,0.025	75
TS110-7	High surge voltage 1.25 A SCR for circuit breaker	SMB Flat-3L,TO-92	1.25	700	25	125	0.1	15
TS110-8	High surge voltage 1.25 A SCR for circuit breaker	SMB Flat-3L,TO-92	1.25	800	20	125	0.1	200
TS1220	12A sensitive gate SCRs	DPAK,IPAK,TO-220AB	12	600	110	125	0.2	5
TS1220-6FP	12 A sensitive gate insulated SCR thyristor	TO-220FPAB	12	600	110	125	0.2	5
TS420	4A sensitive gate SCRs	DPAK,IPAK,TO-220AB	4	600	30	125	0.2	5
TS820	8A sensitive gate SCRs	DPAK,IPAK,TO-220AB,TO-220FPAB	8	600,700	70	125	0.2	5
X006	0.8A sensitive gate SCRs	TO-92	0.8	600	9	125	0.2	25
X00619	0.8 A sensitive gate high immunity SCR thyristor	SOT-223,TO-92	0.8	600	9	125	0.2	40
X0115ML	Sensitive 0.8 A SCR Thyristor in SOT-23-3L	SOT23	0.8	600	7	125	0.15	80
X0115MUF	Sensitive 1 A SCR Thyristor in SMBflat-3L	SMB Flat-3L	1	600	10	125	0.15	80
X02	1.25 A Logic Level SCR thyristor	SMB Flat-3L,SOT-223,TO-92	1.25	600,800	22.5	125	0.05,0.2	10,15,20
X0402MB	4 A Sensitive gate 200 μA SCR in DPAK package	DPAK	4	-	-	125	-	-
X0402MH	4 A Sensitive gate 200 ?A SCR in DPAK package	IPAK	4	-	-	125	-	-
X0405MB	4 A Sensitive gate SCR in DPAK package	DPAK	4	-	-	125	-	-
X0405MH	4 A Sensitive gate SCR in DPAK package	IPAK	4	-	-	125	-	-
XL0840	0.8A sensitive gate SCRs	TO-92	0.8	400	7	125	0.2	75

**Thyristors (SCR) and AC Switches / Thyristors (SCR)/Standard Thyristors (SCR)**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Junction Temperature (°C) max	Triggering gate current max (mA)	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>J(max)</sub> ) min
BTW67	50 A standard SCR Thyristor in RD91	RD-91	50	1000	580	125	80	1000
BTW68	30 A standard SCR Thyristor in TOP3I	TOP3 Ins	30	1200,800	400	125	50	500
BTW69-1200	50 A - 1200 V standard SCR Thyristor in TOP3 Ins.	TOP3 Ins	50	1200	580	125	80	1000
BTW69-1200N	50 A 1200 V SCR Thyristor in non-insulated TOP3	TOP3	50	1200	700	125	50	1000
BTW69-600	50 A - 600 V standard SCR Thyristor in TOP3 Ins.	TOP3 Ins	50	600	580	125	80	1000
BTW69-800	50 A - 800 V standard SCR Thyristor in TOP3 Ins.	TOP3 Ins	50	800	580	125	80	1000
TN1205T-600	12 A 600 V DPAK standard SCRs	DPAK	12	600	115	125	5	200
TN1215	12A standard SCRs	D2PAK,DPAK,IPAK	12	600,800	110,140	125	15	200
TN1515-600B	15 A 600 V standard SCR Thyristor in DPAK	DPAK	15	600	150	125	15	200
TN1625	16A standard SCRs	D2PAK	16	1000,600	190	125	25	500
TN2540	Standard 25 A SCRs	D2PAK	25	600,800	300	125	40	1000
TN2540-12G	25 A 1200 V Standard SCR Thyristor in D2PAK	D2PAK	25	1200	300	125	40	1500
TN4050-12PI	40 A 1200 V standard SCR thyristor in TOP3 Ins.	TOP3 Ins	40	1200	400	125	50	2000
TN6050-12PI	60 A 1200 V standard SCR Thyristor in TOP3 Ins.	TOP3 Ins	60	1200	700	125	50	2000
TN805	8A standard SCRs	DPAK	8	600	70	125	5	50
TN815	8A standard SCRs	DPAK	8	600,800	70	125	15	150
TS420-600BC	4 A 600 V Sensitive Gate SCR in DPAK Package	DPAK	4	600	30	110	0.1	-
TXN625	25A standard SCRs	TO-220AB Ins	25	600	300	125	40	1000
TXN825RG	25 A 800 V standard SCR Thyristor in TO-220 Ins.	TO-220AB Ins	25	800	300	125	40	1500
TYN1012	12A standard SCRs	TO-220AB	12	1000	140	125	15,5	200,40
TYN1212	12 A 1200 V standard SCR Thyristor in TO-220AB	TO-220AB	12	1200	120	125	15	200
TYN1225	25 A 1200 V Standard SCR Thyristor in TO-220AB	TO-220AB	25	1200	300	125	40	1000
TYN606	6A standard SCRs	TO-220AB	6	600	70	150	15	200
TYN608	8A standard SCRs	TO-220AB	8	600	95	125	15	150
TYN610	10A 600 V standard SCRs in TO-220AB	TO-220AB	10	600	100	125	15	200
TYN612	12A standard SCRs	TO-220AB	12	600	140	125	15,5	200,40

TYN612M	12A standard SCRs	TO-220AB,TO-220FPAB	12	600	120	125	5	50
TYN616	16A standard SCRs	TO-220AB	16	600	190	125	25	500
TYN625	25A standard SCRs	TO-220AB	25	600	300	125	40	1000
TYN640	40 A standard SCRs	TO-220AB	40	600	460	125	35	1000
TYN812	12A standard SCRs	TO-220AB	12	800	140	125	15,5	200,40
TYN816	16A standard SCRs	TO-220AB	16	800	190	125	25	500
TYN825	25A standard SCRs	TO-220AB	25	800	300	125	40	1000
TYN840	40 A standard SCRs	TO-220AB	40	800	460	125	35	1000

## Thyristors Application Specific Devices

### Overview

A.S.D. (Application Specific Discretes) technology is a vertical integrated power technology using a full planar process. By applying the masking process on both sides of the chip, higher current density is achievable than is possible with epitaxial base or horizontal structures.

It provides improved reliability through the outstanding ruggedness of the device, as well as enhanced performance resulting from design dedicated to the application. For example, EMI filtering capability is greater than with discrete circuitry.

Their integration allows component count reduction by a ratio of 2 to 6, which leads to smaller PCBs and lower costs, while maintaining the high-voltage and high-current-density capability normally associated with discrete components. The range includes products for street lighting HID ignition, as well as gas and oil boiler ignitors and inductive ballast fluorescent lamp starters.

**Thyristors (SCR) and AC Switches / Thyristors Application Specific Devices/Application specific ignitors**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive Surge Peak OnStateCurrent for Thyrist (A) typ	Peak Repeat Off Voltage (V) max	Peak Repeat Reverse Voltage (V) max	Breakover voltage (V) min	Breakover voltage (V) max	Critical Rate of Rise of On-State Current (A/μs) max
FLC01	Fire lighter circuit	DPAK,IPAK	-	190	200	-	206	233	120
LIC01	Light ignition circuit	DPAK,IPAK	1.2	50	180	180	195	215	80
P0130	0.8A SCRs	TO-92	0.8	7	100	100	-	-	50
TN22	Fluorescent tube lamp starter SCR	IPAK,TO-220AB	2	20	400	400	1200	1500	50
FLC10	Fire lighter circuit	DPAK	-	240	20	20	200	250	200

# Triacs

## Overview

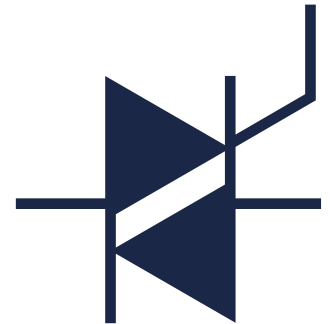
### A very compact solution for switching loads on AC power lines

Not limited by electromechanical ageing contingencies, triacs have a very long lifespan within circuits fully respecting specification boundaries.

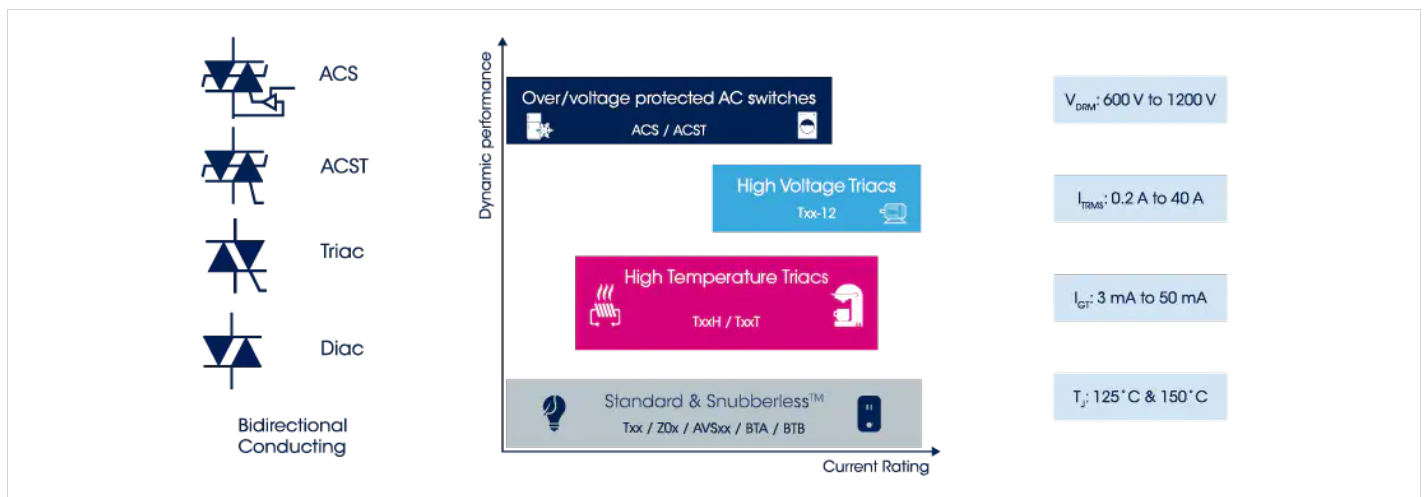
With a voltage range from 600 to 800 V and up to 1200 V for certain industrial devices, ST's portfolio covers medium-power AC loads with 1 to 50 A triacs.

With a range of driveable AC loads from 120 to 500 V, the list of circuits benefiting from ST triacs includes dimmers, all types of AC mains on-off switches, home or office copy/printer appliances, as well as industrial motor starters or SSRs, gardening tools, automated irrigation systems and a wide variety of automation controllers for factories, buildings and homes:

- The high-voltage triacs are dedicated to industrial and three-phase mains switching applications.
- Designed to ensure high switching performance in circuits that need space optimization, our 8T triacs are ideal for applications with high EMI constraints while our 6H triacs and 8H triacs target applications with high thermal constraints
- Our standard and snubberless™ triacs retain the exhaustive gate drive possibilities and packages covering all power mains on/off and phase angle switching needs.
- Featuring overvoltage protection functions, our ACS™ AC switches include highly inductive load switching capabilities for home and irrigation appliances including solenoid actuators and pumps, while our ACST triacs are designed for higher loads in appliances or equipment plugged in 24/7.



Triacs belong to our **STPOWER** family.



**Thyristors (SCR) and AC Switches / Triacs/Automatic voltage switches**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Quadrants	Critical Rate of Rise of On-State Current (A/ $\mu$ s) max	Rising Ratio Of Off Voltage (V/ $\mu$ s) (@ $T_{J(max)}$ ) min
AVS08CB	Automatic voltage switch (SMPS < 200W)	TO-220AB	8	500	65	I, II, III	100	50
AVS10CB	Automatic voltage switch (SMPS < 300W)	TO-220AB	10	600	80	I, II, III	100	50
AVS12CB	Automatic voltage switch (SMPS < 500W)	TO-220AB	12	600	100	I, II, III	100	50

**Thyristors (SCR) and AC Switches / Triacs/Diacs**

<b>Part Number</b>	<b>General Description</b>	<b>Package</b>	<b>Breakover voltage (V) min</b>	<b>Breakover voltage (V) max</b>
DB3	DIAC	DO-35	28	36
DB3TG	DIAC in DO35 with +/- 2 V tight VBO	DO-35	30	34
DB4	DIAC	DO-35	35	45
SMDB3	DIAC	SOT23	28	36
TMMDB3	DIAC	MiniMELF	28	36
TMMDB3TG	DIAC in MINIMELF with +/- 2 V tight VBO	MiniMELF	30	34



**Thyristors (SCR) and AC Switches / Triacs/High-temperature Triacs**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Quadrants	Triggering gate current max (mA) (I, II, III)	Triggering gate current max (mA) (I, II, III, IV)	Rate of decrease of commutating on-state current (A/ms) (@ T <sub>J(max)</sub> ) min
BTA06T-600CWRG	6A Snubberless™ Triacs	TO-220AB Ins	6	600	45	I, II, III	35, 35, 35	-	8
T1010H	10 A - 600 V - 150 °C logic level H-series Triacs	D2PAK,TO-220AB	10	600	100	I, II, III	10, 10, 10	-	3.8
T1035H	10 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	10	600	100	I, II, III	35, 35, 35	-	13
T1050H	10 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	10	600	100	I, II, III	50, 50, 50	-	18
T1210T-6I	12A Snubberless™ Triacs	TO-220AB Ins	12	600	90	I, II, III	10, 10, 10	-	3
T1210T-8G	12A 800V 150°C D <sup>2</sup> PAK Logic Level T-Series Triac	D2PAK	12	800	100	I, II, III	10	-	14.4
T1210T-8T	Logic Level 12A TRIAC	TO220 CLIP WIRE MESABOND	12	800	90	I, II, III	10, 10, 10	-	2.7
T1220T-6I	12A Snubberless™ Triacs	TO-220AB Ins	12	600	90	I, II, III	20, 20, 20	-	3
T1225T-6I	12A Snubberless™ Triacs	TO-220AB Ins	12	600	90	I, II, III, IV	-	25, 25, 25, 40	3
T1235H	12 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	12	600	120	I, II, III	35, 35, 35	-	16
T1235H-8G	12 A - 800 V - 150 °C 8H-Triac in D2PAK	D2PAK	12	800	120	I, II, III	35, 35, 35	-	12
T1235H-8I	12 A - 800 V - 150 °C 8H-Triac in TO-220AB Ins.	TO-220AB Ins	12	800	120	I, II, III	35, 35, 35	-	12
T1235H-8T	12 A - 800 V - 150 °C 8H-Triac in TO-220AB	TO-220AB	12	800	120	I, II, III	35, 35, 35	-	12
T1235T-8G	12A 800V 150°C D <sup>2</sup> PAK Snubberless™ T-Series Triac	D2PAK	12	800	90	I, II, III	35, 35, 35	-	6
T1235T-8I	12 A Snubberless™ Triac	TO-220AB Ins	12	800	90	I, II, III	35, 35, 35	-	6
T1235T-8R	12 A Snubberless Triac	I2PAK TRIAC CLIP	12	800	90	I, II, III	35, 35, 35	-	13
T1235T-8T	12 A Snubberless™ Triac	TO220 CLIP WIRE MESABOND	12	800	90	I, II, III	35, 35, 35	-	6
T1250H	12 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	12	600	120	I, II, III	50, 50, 50	-	21
T1610H	16 A - 600 V - 150 °C logic level H-series Triac in TO-220AB	TO-220AB	16	600	160	I, II, III	10, 10, 10	-	3
T1610T-8G	16A 800V 150°C D <sup>2</sup> PAK Logic Level T-Series Triac	D2PAK	16	800	120	I, II, III	10, 10, 10	-	1.8
T1610T-8I	Logic level 16 A Triac	TO-220AB Ins	16	800	120	I, II, III	10, 10, 10	-	1.8
T1610T-8T	Logic Level 16A TRIAC	TO220 CLIP WIRE MESABOND	16	800	120	I, II, III	10, 10, 10	-	5
T1620T-8G	16A 800V 150°C D <sup>2</sup> PAK Snubberless™ T-Series Triac	D2PAK	16	800	120	I, II, III	20, 20, 20	-	4.5
T1620T-8I	Snubberless™ 16 A Triac	TO-220AB Ins	16	800	120	I, II, III	20, 20, 20	-	4.5
T1625T-8I	Standard 16 A Triac	TO-220AB Ins	16	800	120	I, II, III, IV	-	25, 25, 25, 50	2
T1635H	16 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	16	600	160,80	I, II, III	35, 35, 35	-	21
T1635H-8G	16 A - 800 V - 150 °C H-series Triac in D2PAK	D2PAK	16	800	160	I, II, III	35, 35, 35	-	16
T1635H-8I	16 A - 800 V - 150 °C H-series Triac in TO-220AB Ins.	TO-220AB Ins	16	800	160	I, II, III	35, 35, 35	-	16
T1635H-8T	16 A - 800 V - 150 °C H-series Triac in TO-220AB	TO-220AB	16	800	160	I, II, III	35, 35, 35	-	16

T1635T-8G	16A 800V 150°C D <sup>2</sup> PAK Snubberless™ T-Series Triac	D2PAK	16	800	120	I, II, III	35, 35, 35	-	12
T1635T-8I	Snubberless™ 16 A Triac	TO-220AB Ins	16	800	120	I, II, III	35, 35, 35	-	12
T1635T-8T	16 A Snubberless™ Triac	TO220 CLIP WIRE MESABOND	16	800	120	I, II, III	35, 35, 35	-	8
T1650H	16 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	16	600	160,40	I, II, III	50, 50, 50	-	28
T2035H-6G	20 A - 600 V - 150 °C H-series Triacs	D2PAK	20	600	200	I, II, III	35, 35, 35	-	27
T2035H-6I	20 A 600 V 150 °C H-series Triac in TO-220 Ins. package	TO-220AB Ins	20	600	200	I, II, III	35, 35, 35	-	27
T2035H-6T	20 A - 600 V - 150 °C H-series Triacs	TO-220AB	20	600	200	I, II, III	35, 35, 35	-	27
T2035H-8G	20 A - 800 V - 150 °C H-series Triac in D <sup>2</sup> PAK	D2PAK	20	800	200	I, II, III	35, 35, 35	-	20
T2035H-8I	20 A - 800 V - 150 °C H-series Triac in TO-220AB Ins.	TO-220AB Ins	20	800	200	I, II, III	35, 35, 35	-	20
T2035H-8T	20 A - 800 V - 150 °C H-series Triac in TO-220AB	TO-220AB	20	800	200	I, II, III	35, 35, 35	-	20
T2035T-8G	20A 800V 150°C D <sup>2</sup> PAK Snubberless™ T-Series Triac	D2PAK	20	800	160	I, II, III	35, 35, 35	-	17.5
T2050H-6G	20 A - 600 V - 150 °C H-series Triacs in D2PAK	D2PAK	20	600	200	I, II, III	50, 50, 50	-	36
T2050H-6T	20 A - 600 V - 150 °C H-series Triacs in TO-220AB	TO-220AB	20	600	200	I, II, III	50, 50, 50	-	36
T2535T-8G	25 A - 800 V - T-Series Triac in D2PAK	D2PAK	25	800	200	I, II, III	35, 35, 35	-	18
T2535T-8I	25 A - 800 V - T-Series Triac in TO-220AB insulated	TO-220AB Ins	25	800	200	I, II, III	35, 35, 35	-	18
T2535T-8T	25 A - 800 V - T-Series Triac in TO-220AB	TO-220AB	25	800	200	I, II, III	35, 35, 35	-	18
T3035H	30 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	30	600	270	I, II, III	35, 35, 35	-	33
T3035H-8G	30 A - 800 V - 150 °C H-series Triac in D <sup>2</sup> PAK	D2PAK	30	800	270	I, II, III	35, 35, 35	-	25
T3035H-8I	30 A - 800 V - 150 °C H-series Triac in TO-220AB Ins.	TO-220AB Ins	30	800	270	I, II, III	35, 35, 35	-	25
T3035H-8T	30 A - 800 V - 150 °C H-series Triac in TO-220AB	TO-220AB	30	800	270	I, II, III	35, 35, 35	-	25
T3050H	30 A - 600 V - 150 °C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	30	600	270	I, II, III	50, 50, 50	-	44
T410H	4 A - 600 V - 150 °C logic level H-series Triac in TO-220AB	TO-220AB	4	600	40	I, II, III	10, 10, 10	-	1.5
T435T-600FP	4A Snubberless™ Triacs	TO-220FPAB	4	600	30	I, II, III	35, 35, 35	-	5.3
T5035H-8PI	50 A - 800 V - 150°C 8H-Triac in TOP3 Ins.	TOP3 Ins	50	800	500	I, II, III	35, 35, 35	-	40
T610H	6 A - 600 V - 150 °C logic level H-series Triac in TO-220AB	TO-220AB	6	600	60	I, II, III	10, 10, 10	-	2.3
T610T-8T	Logic Level 6A TRIAC	TO220 CLIP WIRE MESABOND	6	800	45	I, II, III	10, 10, 10	-	1.2
T635T-8T	6 A Snubberless™ Triac	TO220 CLIP WIRE MESABOND	6	800	45	I, II, III	35, 35, 35	-	3
T810H	8 A - 600 V - 150°C Logic Level H-Series Triacs	D2PAK,TO-220AB	8	600	80	I, II, III	10, 10, 10	-	3

T810T-6I	8A Snubberless™ and logic level Triacs	TO-220AB Ins	8	600	60	I, II, III	10, 10, 10	-	2
T810T-8G	8A 800V 150°C D <sup>2</sup> PAK Logic Level T-Series Triac	D2PAK	8	800	60	I, II, III	10, 10, 10	-	1.4
T810T-8T	Logic Level 8A TRIAC	TO220 CLIP WIRE MESABOND	8	800	60	I, II, III	10, 10, 10	-	1.4
T820T-6I	8A Snubberless™ and logic level Triacs	TO-220AB Ins	8	600	60	I, II, III	20, 20, 20	-	3.4
T825T-6I	8A Snubberless™ and logic level Triacs	TO-220AB Ins	8	600	60	I, II, III, IV	-	25, 25, 25, 40	4.5
T835H	8 A - 600 V - 150°C H-series Triacs	D2PAK,TO-220AB,TO-220AB Ins	8	600	80	I, II, III	35, 35, 35	-	11
T835H-8G	8 A - 800 V - 150 °C 8H-Triac in D2PAK	D2PAK	8	800	80	I, II, III	35, 35, 35	-	8
T835H-8I	8 A - 800 V - 150 °C 8H-Triac in TO-220AB Ins.	TO-220AB Ins	8	800	80	I, II, III	35, 35, 35	-	8
T835H-8T	8 A - 800 V - 150 °C 8H-Triac in TO-220AB	TO-220AB	8	800	80	I, II, III	35, 35, 35	-	8
T835T-6I	8A Snubberless™ and logic level Triacs	TO-220AB Ins	8	600	60	I, II, III	35,35,35	-	8
T835T-8G	8A 800V 150°C D <sup>2</sup> PAK Snubberless™ T-Series Triac	D2PAK	8	800	60	I, II, III	35, 35, 35	-	4
T835T-8I	8 A Snubberless™ Triac	TO-220AB Ins	8	800	60	I, II, III	35, 35, 35	-	4
T835T-8T	8 A Snubberless™ Triac	TO220 CLIP WIRE MESABOND	8	800	60	I, II, III	35, 35, 35	-	4
T850H	8 A - 600 V - 150°C H-Series Triacs	D2PAK,TO-220AB,TO-220AB Ins	8	600	80	I, II, III	50, 50, 50	-	14
T1210T-8FP	Logic Level 12A TRIAC	TO-220FPAB	12	800	90	I, II, III	10, 10, 10	-	2.7
T1235T-8FP	12 A Snubberless™ Triac	TO-220FPAB	12	800	90	I, II, III	35, 35, 35	-	6
T1610T-8FP	Logic Level 16A TRIAC	TO-220FPAB	16	800	120	I, II, III	10, 10, 10	-	5
T1635T-8FP	16 A Snubberless™ Triac	TO-220FPAB	16	800	120	I, II, III	35, 35, 35	-	8
T610T-8FP	Logic Level 6A TRIAC	TO-220FPAB	6	800	45	I, II, III	10, 10, 10	-	1.2
T635T-8FP	6 A Snubberless™ Triac	TO-220FPAB	6	800	45	I, II, III	35, 35, 35	-	3
T810T-8FP	Logic Level 8A TRIAC	TO-220FPAB	8	800	60	I, II, III	10, 10, 10	-	1.4
T835T-8FP	8 A Snubberless™ Triac	TO-220FPAB	8	800	60	I, II, III	35, 35, 35	-	4

**Thyristors (SCR) and AC Switches / Triacs/Standard and Snubberless Triacs**

Part Number	General Description	Package	RMS on-state current (A) max	Repetitive peak off-state voltage (V) max	Non repetitive surge peak on-state current (A) max	Junction Temperature (°C) max	Quadrants	Triggering gate current max (mA) (I, II, III)	Triggering gate current max (mA) (I, II, III, IV)	Rate of decrease of commutating on-state current (A/ms) (@ T <sub>J(max)</sub> ) min	Rising Ratio Of Off Voltage (V/μs) (@ T <sub>J(max)</sub> ) min
BTA06	6A standard and Snubberless™ Triacs	TO-220AB Ins	6	600,800	60	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 35, 5, 5	25, 25, 25, 50,50, 50, 50, 100	1.2,2,4,2,7,3,5,5.3	1000,20,200,40,400
BTA08	8A standard and Snubberless™ Triacs	TO-220AB Ins	8	600,800	80	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 5, 5, 50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	1.5,3,4,5,5,3,7	1000,20,200,40,400
BTA10	10A standard and Snubberless™ Triacs	TO-220AB Ins	10	600,800	100	125	I, II, III, I, II, III, IV	35, 35, 35,50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	4,4,5,5,9	1000,200,400,500
BTA10-600GP	10A Triac for Light Dimmer	TO-220AB Ins	10	600	120	125	I, II, III, IV	-	25, 25, 25, 100	2.2	30
BTA12	12A standard and Snubberless™ Triacs	TO-220AB Ins	12	600,800	120	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 5, 5, 50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	1,12,2,9,5,3,6,5	1000,20,200,40,400,500
BTA16	16A standard and Snubberless™ Triacs	TO-220AB Ins	16	600,800	160	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	14,3,7,8.5	1000,200,40,400,500
BTA20	20 A Snubberless™ Triacs	TO-220AB Ins	20	600,700	200	125	I, II, III	35, 35, 35,50, 50, 50	-	11,18	250,500
BTA24	25A Snubberless™ Triacs	TO-220AB Ins	25	600,800	250	125	I, II, III	35, 35, 35,50, 50, 50	-	13,22	1000,500
BTA25	25A standard and Snubberless™ Triacs	RD-91	25	600,800	250	125	I, II, III, I, II, III, IV	50, 50, 50	50, 50, 50, 100	13.3,22	1000,500
BTA26	25A standard and Snubberless™ Triacs	TOP3 Ins	25	600,800	250	125	I, II, III, I, II, III, IV	35, 35, 35,50, 50, 50	50, 50, 50, 100	13,13.3,22	1000,500
BTA40	40A standard Triacs	RD-91	40	600,800	400	125	I, II, III, IV	-	50, 50, 50, 100	20	500
BTA41	40A standard Triacs	TOP3 Ins	40	600,800	400	125	I, II, III, IV	-	50, 50, 50, 100	20	500
BTB04-600SL	4A Standard Triac	TO-220AB	4	600	35	125	I, II, III, IV	-	10, 10, 10, 25	1.8	75
BTB06	6A standard and Snubberless™ Triacs	TO-220AB	6	600,800	60	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 35, 5, 5	25, 25, 25, 50	1.2,2,4,2,7,3,5,5.3	1000,20,200,40,400
BTB08	8A standard and Snubberless™ Triacs	TO-220AB	8	600,800	80	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 35, 5, 5, 50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	1.5,3,4,5,5,3,7	1000,20,200,40,400
BTB10	10A standard and Snubberless™ Triacs	TO-220AB	10	600,800	100	125	I, II, III	50, 50, 50	-	7	1000
BTB12	12A standard and Snubberless™ Triacs	TO-220AB	12	600,800	120	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 35, 5, 5, 5	25, 25, 25, 50,50, 50, 50, 100	1,12,3,5,3,6,5,8.5	1000,20,200,40,400,500
BTB16	16A standard and Snubberless™ Triacs	TO-220AB	16	600,800	160	125	I, II, III, I, II, III, IV	10, 10, 10,35, 35, 35, 50, 50, 50	25, 25, 25, 50,50, 50, 50, 100	14,3,7,8.5	1000,200,40,400,500
BTB24	25A standard and Snubberless™ Triacs	TO-220AB	25	600,800	250	125	I, II, III, I, II, III, IV	35, 35, 35,50, 50, 50	50, 50, 50, 100	13,13.3,22	1000,500
BTB26	25A standard Triacs	TOP3	25	600	250	125	I, II, III, IV	-	50, 50, 50, 100	13.3	500
BTB41	40A standard Triacs	TOP3	40	600,800	400	125	I, II, III, IV	-	50, 50, 50, 100	20	500
T1035	600V, 10A Snubberless? Triac in D2PAK	D2PAK	10	600	100	125	I, II, III	35, 35, 35	-	5.5	500
T1050	800V, 10A Snubberless? Triac in D2PAK	D2PAK	10	800	100	125	I, II, III	50, 50, 50	-	9	1000
T1205	12A - 600V - Logic Level Triac in D2PAK	D2PAK	12	600	120	125	I, II, III	5, 5, 5	-	1	20
T1210	12A - Logic Level Triac in D2PAK	D2PAK	12	600,800	120	125	I, II, III	10, 10, 10	-	2.9	40

T1235	12A Snubberless™ Triacs in D2PAK	D2PAK	12	600,800	120	125	I, II, III	35, 35, 35	-	6.5	500
T1235-6B-TR	12 A - 600V - 125 °C Snubberless™ Triac in DPAK	DPAK	12	600	108	-	I, II, III	-	-	12	-
T1250	12A - Snubberless™ Triac in D2PAK	D2PAK	12	600	120	125	I, II, III	50, 50, 50	-	12	1000
T1605G-6I	16 A Logic Level Triac for LED Light Dimmers	TO-220AB Ins	16	600	140	125	I, II, III	5, 5, 5	-	2.5	10
T1610	16A Logic Level Triac in D2PAK	D2PAK	16	600,800	160	125	I, II, III	10, 10, 10	-	3	40
T1635	16A Snubberless™ Triacs in D2PAK	D2PAK	16	600,800	160	125	I, II, III	35, 35, 35	-	8.5	500
T1650	16A Snubberless™ Triacs in D2PAK	D2PAK	16	600	160	125	I, II, III	50, 50, 50	-	14	1000
T16T	16A Snubberless™ and logic level Triacs	TO-220AB Ins	16	600	120	125	I, II, III	35, 35, 35	-	16	2000
T2535	25A Snubberless™ Triacs in D2PAK	D2PAK	25	600,800	250	125	I, II, III	35, 35, 35	-	13	500
T2550-12G	25 A , 1200 V , Snubberless , in D2PAK Triac	D2PAK	25	1200	240	125	I, II, III	50, 50, 50	-	100	2500
T2550-12I	25 A , 1200 V , Snubberless in TO-220AB Ins. Triac	TO-220AB Ins	25	1200	240	125	I, II, III	50, 50, 50	-	100	2500
T2550-12T	25 A , 1200 V , Snubberless in TO-220AB Triac	TO-220AB	25	1200	240	125	I, II, III	50, 50, 50	-	100	2500
T2650-6PF	26A 600V Snubberless Triac in TO-3PF package	TO-3PF	26	600	260	125	I, II, III	50, 50, 50	-	50	1000
T405	4A logic level Triacs	DPAK,IPAK,TO-220AB	4	600,800	30	125	I, II, III	5, 5, 5	-	0.9	20
T4050-6PF	40A 600V Snubberless Triac in TO-3PF package	TO-3PF	40	600	400	125	I, II, III	50, 50, 50	-	25	1000
T405Q-600	4A sensitive Triacs	DPAK,IPAK	4	600	35	125	I, II, III, IV	-	5, 5, 5, 10	1.8	10
T405T-6FP	4A Logic Level Triac	TO-220FPAB	4	600	30	125	I, II, III	5, 5, 5	-	1.8	20
T410	4A logic level Triacs	DPAK,IPAK,TO-220AB	4	600,800	30	125	I, II, III	10, 10, 10	-	2	40
T435	4A Snubberless™ Triacs	DPAK,IPAK,TO-220AB	4	600,800	30	125	I, II, III	35, 35, 35	-	2.5	400
T810	8A Logic Level Triacs in DPAK and D2PAK	D2PAK,DPAK	8	600,800	80	125	I, II, III	10, 10, 10	-	2.8	40
T835	8A Snubberless™ Triacs in DPAK and D2PAK	D2PAK,DPAK,IPAK	8	600,800	80	125	I, II, III	35, 35, 35	-	4.5	400
T850	8A Snubberless™ Triacs in D2PAK	D2PAK	8	600,800	80	125	I, II, III	50, 50, 50	-	7	1000
TPDVxx25	25A high voltage Triacs	TOP3 Ins	25	1000,1200	230	125	I, II, III	150, 150, 150	-	20	500
TPDVxx40	40A high-voltage Triacs	TOP3 Ins	40	1200,800	350	125	I, II, III	200, 200, 200	-	35	500
TXDVxx12	12A high-voltage Triacs	TO-220AB Ins	12	1200	120	125	I, II, III	100, 100, 100	-	30	200
Z00607	0.8A standard Triacs	SOT-223,TO-92	0.8	600	9	110	I, II, III, IV	-	5, 5, 5, 7	0.35	10
Z01	1A Standard Triacs	SMB Flat-3L,SOT-223,TO-92	1	600,700,800	8	125	I, II, III, IV	-	10, 10, 10, 10, 25, 25, 25, 3, 3, 3, 5, 5, 5, 5, 7	0.44,1,5	10,100,20,50
Z0109M1	600V, 1A, Standard Triac in SO-8	SO-8	1	600	8	125	I, II, III, IV	-	10, 10, 10, 10	0.44	50
Z0402MB	4 A Triac in DPAK	DPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0402MH	4 A Triac in IPAK	IPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0405MB	4 A Triac in DPAK	DPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0405MH	4 A Triac in IPAK	IPAK	4	600	-	-	I, II, III, IV	-	-	-	-

Z0409MB	4 A Triac in DPAK	DPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0409MH	4 A Triac in IPAK	IPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0410MB	4 A Triac in DPAK	DPAK	4	600	-	-	I, II, III, IV	-	-	-	-
Z0410MH	4 A Triac in IPAK	IPAK	4	600	-	-	I, II, III, IV	-	-	-	-
T830-8FP	8 A Snubberless™ Triac	TO-220FPAB	8	800	80	125	I, II, III	30, 30, 30	-	10	2500

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